Delivery



PRODUCT INFORMATION

OPRX Target

KOR-3, KOR3, NOCIR, NOP, NOPr, OOR, OPRL, **Synonyms**

ORL1, PNOCR

Human OPRX full length protein-synthetic **Description**

nanodisc 6~8weeks P41146

Uniprot ID Expression Host HEK293

Protein Families GPCR, Transmembrane, Druggable Genome,

Protein Pathways GPCRDB Class A Rhodopsin-like, Peptide GPCRs,

The human full length OPRX protein has a MW of **Molecular Weight**

40.7kDa

Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before Formulation & Reconstitution lyophilization. Please see Certificate of Analysis for specific instructions. Do not use solvents with

pH lower than 6.5 in subsequent experiments. Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store

Storage & Shipping at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient

temperature.

The protein encoded by this gene is a member of the 7 transmembrane-spanning G protein-coupled receptor family, and functions as a receptor for the endogenous, opioid-related neuropeptide, nociceptin/orphanin FQ. This receptor-ligand system modulates a variety of biological functions and neurobehavior, including stress responses and anxiety behavior, learning and memory, locomotor activity, and inflammatory and immune responses. A promoter region between this gene and the 5'-adjacent RGS19 (regulator of G-protein signaling 19) gene on the opposite strand functions bi-directionally as a core-promoter for

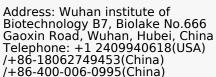
Background

both genes, suggesting co-operative transcriptional regulation of these two

functionally related genes. Alternatively spliced transcript variants have been described for this gene. A recent study provided evidence for translational readthrough in this gene, and expression of an additional C-terminally extended isoform via the use of an alternative in-frame translation termination codon. [provided by

RefSeq, Dec 2017]

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